### **BULLETIN 98 - 03**

U.S. Department of Labor	<u>Distribution</u> :	Subject: New Apprenticeable
Employment and Training  Administration	A-541 Headquarters Staff	Occupation -Residential Wire
Office of Apprenticeship	A-546 All Field Staff	<u>Code</u> : 200 <b>r</b>
Training, Employer Labor	A-547 SD + RD + SAC;	
Services (OATELS)	Lab. Com	
Washington, D.C. 20210		
Symbols: DNIP:JM		Action: Immediate

Date: February 19, 1998

**PURPOSE**: To inform Office of Apprenticeship Training, Employer Labor Services (OATELS), Bureau of Apprenticeship and Training (BAT) Staff of a new apprenticeable occupation:

Residential Wirer

O\*NET Code: 47-2111.00

RAIS Code: 1022

Training Term: 4,800 Hrs. (3 yrs) Type of Training: Time - based

**BACKGROUND**: This occupation was submitted by the National Joint Apprenticeship and Training committee for the Electrical Industry (NJATC).

The description for this occupation exceeds the description in the Dictionary of Occupational Titles (DOT). This job is concerned with installing of lighting, control and security systems, communications and sound systems, terminal transformers material handling and pre- fabrication.

Every sponsor will develop their own work process and related instruction outline to meet their needs; therefore, all of the outlines will have unique characteristics. To assist Field Staff, we have attached one example of the outlines for this occupation.

#### Attachments

NOTE: State Directors, please share this information with our SAC partners where appropriate.

# WORK PROCESSES RESIDENTIAL WIRER

O\*NET Code: 47-2111.00 RAIS Code: 1022

WORK PROCESS	APPROXIMATE HOURS
PROJECT LAYOUT AND PLANNING  Reading and interpreting blueprints and specification  Coordination between crafts, general contractor and  Layout services and branch circuits	
UNDERGROUND INSTALLATIONS Trenching and ditch digging Direct Burial Installing PVC/Rigid Conduit Installing grounding electrode systems	200
THIN WALL CONDUIT RACEWAY SYSTEMS Fastening and supporting devices Conduit fabrication Installation of conduit, fittings and boxes	200
RIGID CONDUIT RACEWAY SYSTEMS Fastening and supporting devices Conduit fabrication Installation of conduit, fittings and boxes	200
INSTALLING SERVICES, AND PANELS Mounting devices Breaker installation Fuse installation Terminations and Bonding	500
INSTALLING, SPLICING & TERMINATING WIRES AND CA Installing Non-metallic Sheath cable Establishing temporary power Feeders and branch circuits Control wiring Splices, taps and terminations	ABLES 1200
LIGHTING SYSTEM INSTALLATION Installing outlet boxes and conductors Installing fixtures Control devices	400
TESTING AND TROUBLESHOOTING SERVICES, MOTORS AND BRANCH CIRCUITS Checking circuit continuity Identifying fault current to ground Certifying system operation Repair and maintenance	100

Ground Verification FIRE ALARM INSTALLATION Blueprint and specification interpretation Layout and circuit installation Control panel and device installation Programming and testing	100
CONTROL SYSTEM INSTALLATION Blueprint and specification interpretation Layout and circuit installation Distributed control	150
SECURITY SYSTEM INSTALLATION  Blueprint and specification interpretation Layout  Box and circuit installation Terminations  Testing	100
INSTALLING COMMUNICATION AND SOUND SYSTEMS Blueprint and specification interpretation Layout Conduit and box installation Installing panels and network devices Circuit installation Terminations and testing	150
INSTALLING AND TERMINATING TRANSFORMERS  Mounting and Installation  Primary and secondary terminations  Testing and troubleshooting	100
SERVICE AND TROUBLESHOOTING  Testing, analysis and repair of: motors, transformers, electrical devices, electronic devices, magnetic devices, lighting and power circuits, control circuits and devices.	100
MATERIAL HANDLING AND PRE-FABRICATION Material/equipment awareness Fabricating for field installation	100
OTHER SPECIALIZED AREAS	<u>200</u>
TOTAL MINIMUM HOURS	4,000

## OFFICE MANAGER/ADMINISTRATIVE SERVICES

O\* NET CODE: 11-3011.00 RAIS CODE: 1033

## RELATED INSTRUCTION

Each apprentice shall be required to participate in a minimum of 160 hours of related classroom training per year.

Air Conditioning

Blueprint Reading

Conduit Fabrication

Digital Electronics

**Electrical Theory** 

**Electrical Grounding** 

Electronics

Fiber Optics

Fire Alarm

**Industry Orientation** 

Job Information

Low Voltage Circuitry

Mathematics

**Basic Motors and Transformers** 

National Electrical Code

OSHA/Safety Awareness

Security Systems

Electrical Circuit Analysis, Repair & Certification